

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/976,892	10/15/2001	William J. Berry	00411-03	1747	
7590 01/29/2004			EXAM	INER	
Walter L. Beavers			CINTINS, IVARS C		
326 South Eugene Street Greensboro, NC 27401			ART UNIT	PAPER NUMBER	
Greensboro, 144	0 27101		1724		
			DATE MAILED: 01/29/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

				_				
		App	lication No.	Applicant(s)				
		09/	976,892	BERRY, WILLIAM	J			
Of	fice Action Summary	.Exa	miner	Art Unit				
			s C. Cintins	1724				
The	MAILING DATE of this comm	unication appears	on the cover sheet	with the correspondence ad	dress			
Period for Rep	•			MONTH/O) FROM	•			
THE MAILIN - Extensions of after SIX (6) N - If the period find period find period find period find the period find period find period find period	NED STATUTORY PERIOD NG DATE OF THIS COMMUITED THIS COMMUITED THIS FROM THE MAILED THE PROVINCE	INICATION. ons of 37 CFR 1.136(a). I ommunication. y (30) days, a reply within n statutory period will appl eply will, by statute, cause hs after the mailing date of	In no event, however, may the statutory minimum of ly and will expire SIX (6) N	a reply be timely filed thirty (30) days will be considered timel IONTHS from the mailing date of this c ABANDONED (35 U.S.C. § 133).	y. ommunication. ·			
1)⊠ Resp	onsive to communication(s)	filed on 10 Novem	<u>nber 2003</u> .					
	action is FINAL .	2b)⊠ This actio	n is non-final.					
3)☐ Since close	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
	n(s) <u>1,3-8,10-16 and 18</u> is/ar							
4a) O	f the above claim(s) i	s/are withdrawn fr	om consideration.					
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1,3-8,10-16 and 18</u> is/are rejected.								
8)☐ Clain	n(s) are subject to res	striction and/or ele	ction requirement.					
Application Pa	apers							
9) <u></u> The s	pecification is objected to by	y the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Appli	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
Repla	acement drawing sheet(s) inclu	ding the correction is	s required if the draw	had Office Action or form P	ZFR 1.121(α). ZTO-152			
i i	oath or declaration is objecte	ed to by the Exami	ner. Note the attac	illed Office Action of form	10-102.			
,	· 35 U.S.C. §§ 119 and 120			0.0440(=) (=) == (5)				
a) ☐ All 1. ☐ 2. ☐ 3. ☐ * See th 13) ☐ Acknowsince a	nowledgment is made of a classification by Some * c) None of Certified copies of the prior Copies of the certified copies application from the Internate attached detailed Office a powledgment is made of a classification certified copies.	of: writy documents ha writy documents ha writy documents ha writes of the priority of ational Bureau (Pout writes of the for domestic pr	ve been received. ve been received i documents have be CT Rule 17.2(a)). ne certified copies iority under 35 U.S	in Application No een received in this Nationa not received. S.C. § 119(e) (to a provision	al application)			
37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachment(s)								
1) Notice of R	teferences Cited (PTO-892) Praftsperson's Patent Drawing Revious In Disclosure Statement(s) (PTO-144	ew (PTO-948) 49) Paper No(s)	5) Notice	iew Summary (PTO-413) Paper N e of Informal Patent Application (P :	o(s) TO-152)			

Application/Control Number: 09/976,892

Art Unit: 1724

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3-8, 10-16 and 18 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. It appears essential that the recited control valve include both a duct having a series of axially spaced, parallel grooves therealong with o-rings therebetween (see page 3, last line through page 4, line 2 of the specification); and a spool having a plurality of longitudinal channels (see page 4, lines 2-3 of the specification) residing in this duct (see page 3, last line of the specification). The channels appear to be required in order to allow water to flow beneath the o-rings (see page 7, lines 2-3 of the specification); and the grooves encircling the duct appear to be required ion order to allow water to freely flow between the o-rings (see page 7, lines 9-10). Without the presence of both of these critical and essential elements, it is not clear that the control valve is capable of functioning in the intended manner. Claims 1, 3-8, 10, 14-16 and 18 fail to recite the apparently critical and essential longitudinal channels in the spool; and claims 1, 3-8, 10-16 and 18 fail to recite the apparently critical and essential series of axially spaced parallel grooves encircling the duct between the o-rings. Accordingly, these are not enabled by the disclosure. In re Mayhew, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-8, 10-16 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

Application/Control Number: 09/976,892

Art Unit: 1724

Applicant regards as the invention. Claims 1, 3-8, 10, 14-16 and 18 fail to recite the apparently critical and essential longitudinal channels in the spool; and claims 1, 3-8, 10-16 and 18 fail to recite the apparently critical and essential series of axially spaced parallel grooves encircling the duct between the o-rings. Accordingly, these claims fail to distinctly claim the subject matter which Applicant regards as the invention, as explained above. Also, the recitation that rotating the spool allows "water to flow through the grooves beneath the o-rings" (claim 15, step d) is deemed to be misdescriptive, since it appears that the channels, not the grooves, allow water to flow beneath the o-rings (see page 7, lines 2-3 of the specification). The grooves apparently allow water to flow between these o-rings (see page 7, lines 9-10 of the specification).

Claims 1, 3-8, 10-16 and 18 would be allowed if amended to overcome the above rejections under 35 U.S.C. § 112.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (571) 272-1155. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Blaine Copenheaver, can be reached at (571) 272-1156.

The centralized facsimile number for the USPTO is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-0987.

Ivars C. Cintins
Primary Examiner
Art Unit 1724